OPEN SOURCE HYPERVISORS ASSESSMENT:

USING OPENBRR METHODOLOGY

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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Virtualization in Computer Science is a technology that enables users to create virtual environment of hardware and software and run them concurrently. With a growing open source market today, several open source Hypervisors also exist. Since the virtualization also prevalent in education industry, there is need to assess the hypervisor for their future usage. In this research there are two open source hypervisors assessed, Proxmox Virtual Environment and Citrix Xen Server, using the OpenBRR Methodology. The categories assessed were Functionality, Performance, Usability, Documentation, Scalability and Support. Based on the result, both hypervisor achieved almost the same score. The recommendation for future work is to conduct assessment using other methodology to find out which hypervisor is suitable for education sector and assessment in other business sectors.

Keywords: Virtualization; Hypervisors; Open Source; OpenBRR; Assessment

DEDICATION

I dedicate this work to the future of virtualization era, especially in the Education World in Indonesia.

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